



.....

On the other hand the fast-moving industrial gate in accordance with DE199 15 376 A1 is characterized by its capability of sustaining high wind loads, exemplary tightness, model reliability and high availability. Nevertheless in practice an even faster and yet affordable system is being demanded, which does, however, manage without any reductions of the advantageous properties of the known gate systems.

From US 2,311,470 another gate closure in the manner of a lamellar shield is known, the gate body of which includes on either side a strap hinge with a multiplicity of hinge members that are interconnected such that they may be oriented at a relative angle, which are guided by rollers in lateral guides guiding the gate body free of contact. The gate body comprises a multiplicity of lamellae interconnected by means of rigid, semi-rigid, or flexible connecting strips which are affixed on the mutually facing longitudinal edges of the lamellae in positive engagement. Moreover the single lamellae extend transversely to the lateral guides across the gate body to thereby connect two respective associated hinge members.

The invention is therefore based on the object of further developing a fast-moving industrial gate in accordance with the preamble of Claim 1 in such a way as to be operable at velocities in excess of 3 m/s which may nevertheless be furnished with low complexity in terms of production technology and thus at low cost.

.....



New Claim 1

1. Fast-moving industrial gate(1) with a gate body (2) covering the gateway and having on either side a strap hinge (21) with a multiplicity of hinge members (22) that are interconnected such that they may be oriented at a relative angle, which are guided by rollers (23) in lateral guides guiding said gate body (2) free of contact,
wherein said gate body (2) includes a multiplicity of stiffening profile members (25, 26) and a flexible hanging (27),
wherein each stiffening profile member (25, 26) extends transversely to the lateral guides across said gate body (2) and connects two respective associated hinge members (22), and
wherein said flexible hanging (27) substantially covers the full surface of one side of said gate body (2) while extending across stiffening profile members (25) and being affixed at each stiffening profile member (25, 26).